

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.(currently amended) A master mold comprising a support layer comprised of a ~~high grinding speed~~ material and a fine structure pattern comprised of a glass or ceramic ~~low grinding speed~~ material supported by said support layer; wherein the support layer material has a lower grinding speed than the material of the fine structure pattern.

2.(currently amended) The master mold of claim 1, wherein said ~~high grinding speed~~ support layer material is a metal material.

3.(canceled)

4.(currently amended) The master mold of claim 1 ~~any of claims 1-3~~ wherein the mold is suitable for making plasma display panel ribs.

5.(currently amended) The master mold of claim 1 ~~claims 1-3~~ wherein the mold is suitable for making microfluidic articles.

6.(original) The master mold of claim 1 wherein said fine structure pattern is a grid-like protrusion pattern comprising a plurality of ridge-like protrusions arranged substantially parallel while intersecting one another with predetermined gaps among them.

7.(currently amended) The[[A]] master mold of claim 1 ~~comprising:~~

~~— a support layer comprised of a metal material;~~

~~a fine structure pattern comprised of a glass or ceramic material formed on said support layer; wherein said fine structure pattern comprises ribs having;~~

~~a rib height of 150 to 300 μ m,~~

a rib pitch of 150 to 800 μm , and

a rib width of 50 to 80 μm .

8.(currently amended) A master mold comprising a support layer comprised of a ~~high grinding speed~~ material and a fine structure pattern ~~comprised of a low grinding speed material~~ supported by said support layer, wherein said fine structure pattern comprises a material having a higher grinding speed than the support layer material and is formed by selectively removing ~~said low grinding speed material~~ such that a fine structure pattern is formed.

9.(currently amended) The master mold of claim 8 wherein the ~~[[low]]~~ high grinding speed material is removed by sand blasting.

10.(currently amended) The master mold of claim 8 wherein the high ~~[[low]]~~ grinding speed material is removed by chemical etching.

11.(currently amended) A method of producing a master mold comprising the steps of:
forming a support layer from a ~~low grinding speed~~ material material;
depositing a layer of a ~~high grinding speed~~ material having a higher grinding speed than the material of the support layer on said support layer to form a composite material layer;
forming a mask on said composite material layer;
selectively removing said layer of high grinding speed material such that the support layer is exposed; and
peeling said mask from said layer of said high grinding speed material.

12.(currently amended) The method of claim 11, wherein said low ~~high~~ grinding speed material is a metal material.

13.(currently amended) The method of claim 11 ~~or 12~~, wherein high ~~[[low]]~~ grinding speed material is glass or ceramics.

14.(currently amended) The method of claim 11 ~~any of claims 11 to 13~~ wherein the high grinding speed material is removed by sand blasting.

15.(currently amended) The method of claim 11 ~~any of claims 11 to 13~~ wherein the high grinding speed material is removed by chemical etching.

16.(currently amended) The method of claim 11 ~~any of claims 11 to 15~~, wherein the high grinding speed material is formed by spraying, enameling or a sol-gel method.

17.(currently amended) The method of claim 11 ~~any of claims 11 to 16~~, wherein said mask is formed by the steps of forming a layer of a mask-forming material on said composite material layer and then patterning it into a desired shape by photolithography.

18. (New) A method of making a flexible mold comprising:

a) providing a master mold comprising a support layer and a fine structure pattern comprised of a material supported by said support layer; wherein the support layer is comprised of a material having a lower grinding speed than the material of the fine structure pattern;

b) applying an ultraviolet curable molding material to the master mold;

c) laminating a support film to the master mold;

d) irradiating the molding material through the support film thereby forming a flexible mold comprising the support film and a shape imparting layer bonded to support; and

e) separating the flexible mold from the master mold.